

## ABSTRACT

25           The present invention provides a vehicle control system, which easily carries  
out modifications such as updating and improvement of the system, improving the  
transmission efficiency of the data and responsiveness of the system, and allowing the  
redundancy to be effectively used even during normal operation of the network. In the  
vehicle control system, an electric control device is formed comprising a cooperative  
30   control ECU which acts as a server apparatus and a plurality of subsystems which are  
connected to this cooperative control ECU and act as client apparatuses. The plurality  
of subsystems comprise, for example, a motor control ECU, a reactive gas supply  
control ECU, an electrical power distribution control ECU, and a cell voltage detection  
control ECU. Each of the ECUs which forms each of the subsystems carries out I/O  
35   processing for the control signals that are sent to and received from the cooperative  
control ECU and shut down processing and protective processing during abnormal  
operation such as a network stoppage. The cooperative ECU carries out control  
operations for controlling each of the ECUs and the controlled objects based on control  
signals obtained from the I/O processing of each of the ECUs.

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FOOTNOTES